

# Anne Arundel County HIV/AIDS Epidemiological Profile

Fourth Quarter 2009

Data reported through December 31, 2009



Center for HIV Surveillance and Epidemiology  
Infectious Disease and Environmental Health Administration  
Maryland Department of Health and Mental Hygiene  
<http://eh.dhmh.md.gov/ideah>  
1-800-358-9001



## HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 became law on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located using DHMH Form 1140.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department using DHMH Form 1140.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located using DHMH Form 1140.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (HIV antibody tests, CD4 immunological tests, HIV viral load tests, HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the State Health Department, using DHMH Form 4492.

## For Assistance with HIV Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance and Epidemiology at the Maryland Department of Health and Mental Hygiene (410-767-5061).

## Limitations in the HIV/AIDS Data

This epidemiological profile only contains HIV and AIDS data as reported by name. Despite a massive effort during which over 17,000 HIV cases were reported from April 24, 2007 through December 31, 2008, not all HIV cases previously reported by the code-based identifier were located and re-reported by name, so the number of living HIV cases is lower than previously reported. In addition, many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an over-reporting of HIV diagnoses in recent years. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in reported HIV diagnoses.

## **Stages of a Case of HIV/AIDS**

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

<b>Time Point</b>	<b>Biological Event</b>	<b>Medical Event</b>	<b>Surveillance Event</b>
<b>1</b>	HIV Infection		
<b>2</b>		HIV Diagnosis	
<b>3</b>			HIV Report
<b>4</b>	AIDS Conditions		
<b>5</b>		AIDS Diagnosis	
<b>6</b>			AIDS Report
<b>7</b>	Death		
<b>8</b>		Death Diagnosis	
<b>9</b>			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur at the same time, but usually there is a time lag between them. The time lag between events can be measured in days, months, or years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, probably many years after the initial HIV infection [time point 1].

## **Changes in Case Terminology**

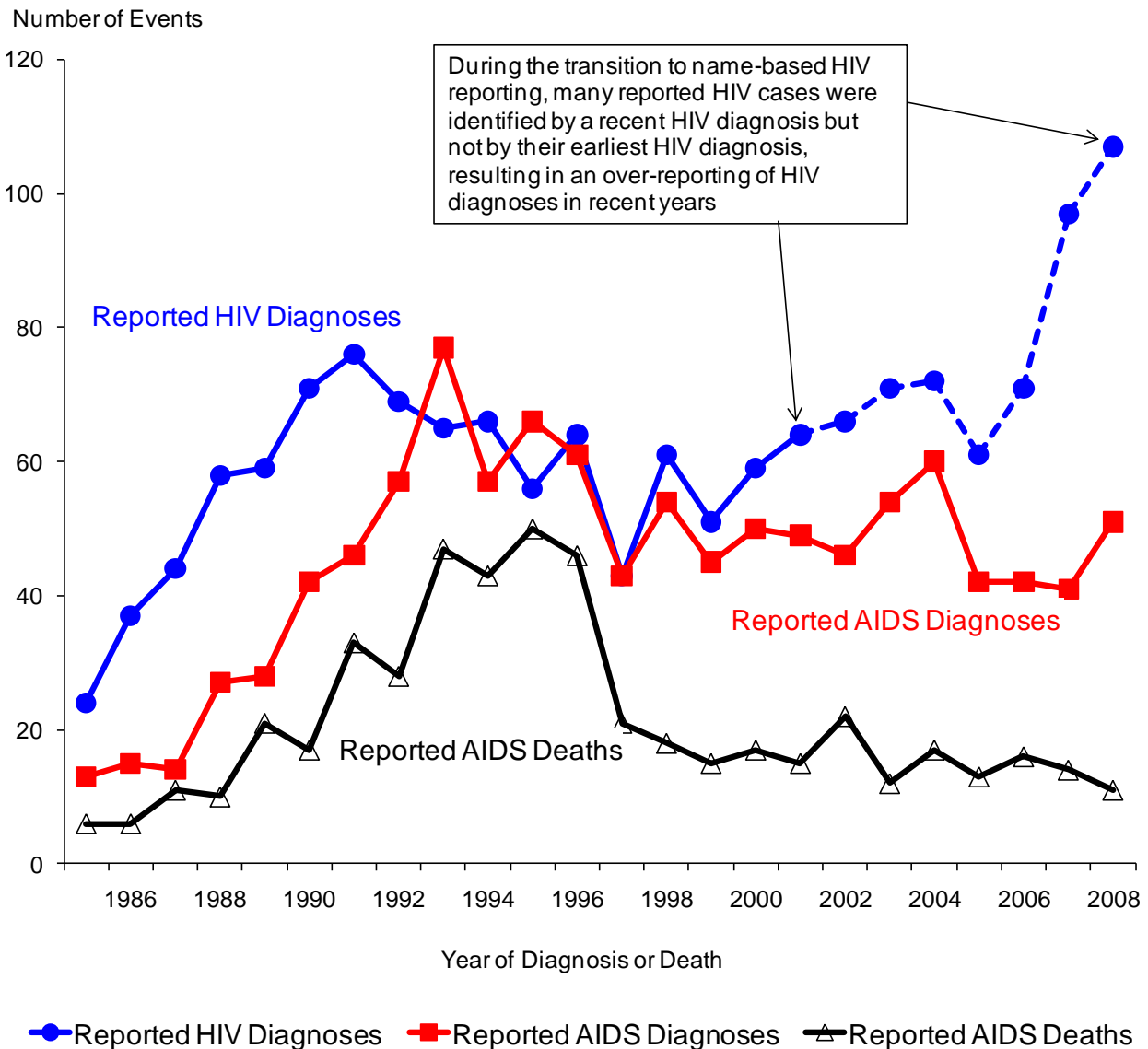
The terminology for HIV and AIDS cases was changed from earlier profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old cases. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is instead able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (the end of the year) are used to generate the number of diagnoses during the prior years. This one year lag allows for delays in reporting by providers and time for the health department to complete investigations. For example, the Reported HIV Diagnoses for 2008 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/08-12/31/08 as reported by name through 12/31/09.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 12/31/08 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/08 as reported by name through 12/31/09.

## Section I – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2008

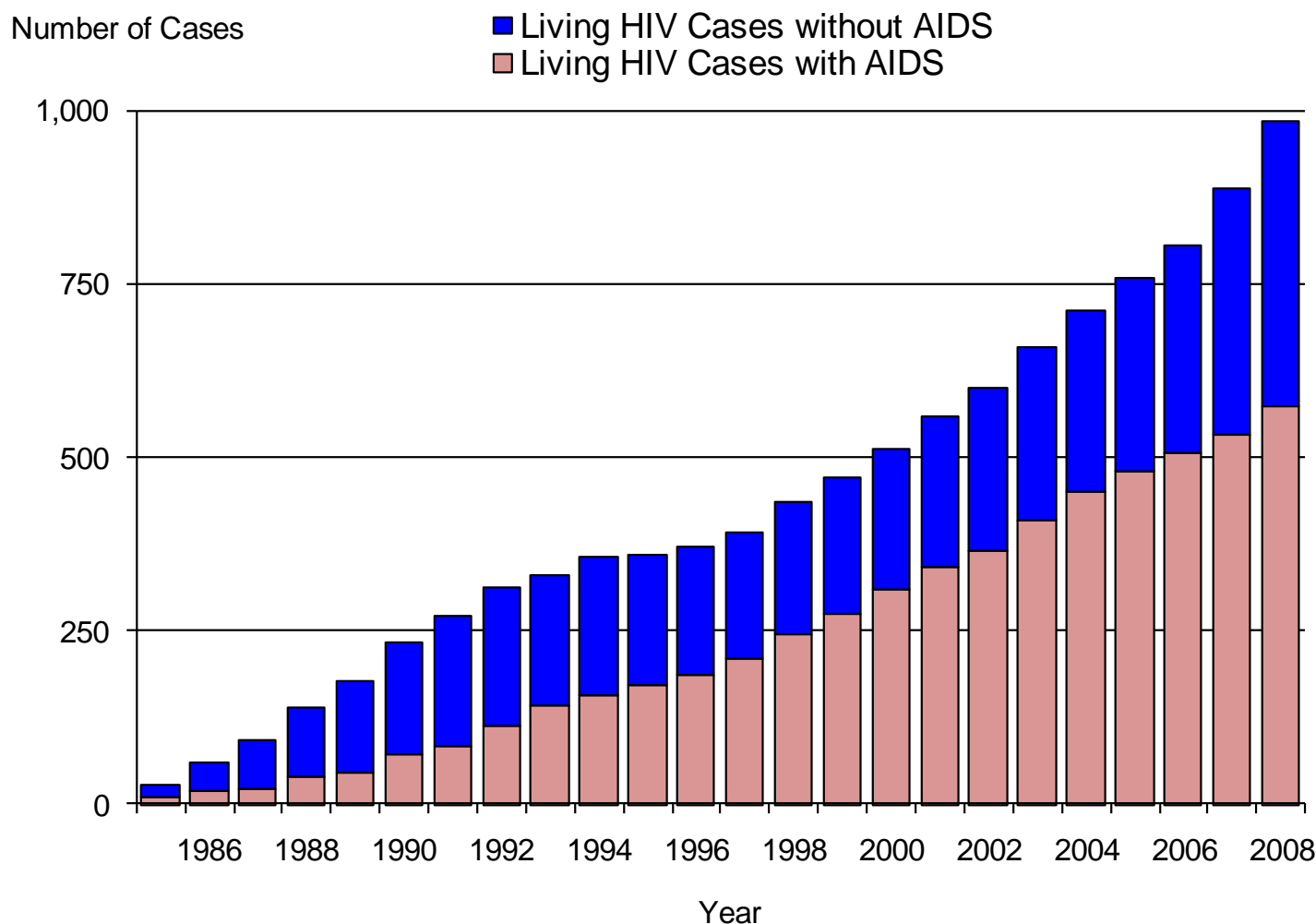
Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2008 as Reported by Name through 12/31/09.



YEAR	Reported			YEAR	Reported			YEAR	Reported		
	HIV Diag.	AIDS Diag.	AIDS Death		HIV Diag.	AIDS Diag.	AIDS Death		HIV Diag.	AIDS Diag.	AIDS Death
1985	24	13	6	1993	65	77	47	2001	64	49	15
1986	37	15	6	1994	66	57	43	2002	66	46	22
1987	44	14	11	1995	56	66	50	2003	71	54	12
1988	58	27	10	1996	64	61	46	2004	72	60	17
1989	59	28	21	1997	43	43	21	2005	61	42	13
1990	71	42	17	1998	61	54	18	2006	71	42	16
1991	76	46	33	1999	51	45	15	2007	97	41	14
1992	69	57	28	2000	59	50	17	2008	107	51	11

## Section II – Trends in Living HIV and AIDS Cases, 1985-2008

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year from 1985 through 2008 as Reported by Name through 12/31/09

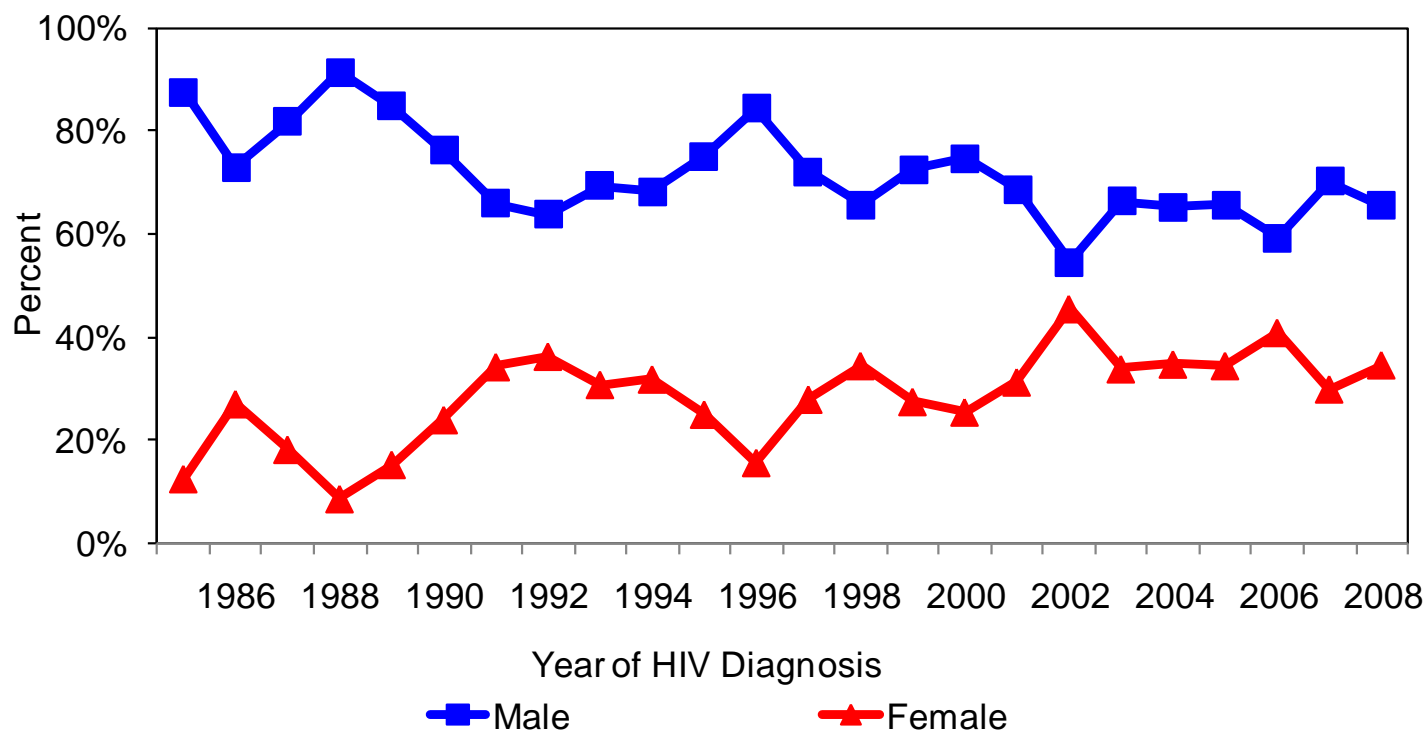


YEAR	Living HIV Cases without AIDS*	Living HIV Cases with AIDS	Total Living HIV Cases*	YEAR	Living HIV Cases without AIDS*	Living HIV Cases with AIDS	Total Living HIV Cases*
1985	18	8	26	1997	182	208	390
1986	40	17	57	1998	189	244	433
1987	70	20	90	1999	195	274	469
1988	101	37	138	2000	205	307	512
1989	132	44	176	2001	216	341	557
1990	162	69	231	2002	235	365	600
1991	189	82	271	2003	250	407	657
1992	201	111	312	2004	260	450	710
1993	189	141	330	2005	280	479	759
1994	200	155	355	2006	301	505	806
1995	188	171	359	2007	356	532	888
1996	185	186	371	2008	412	572	984

\* During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS and the total living HIV cases are lower than previously reported

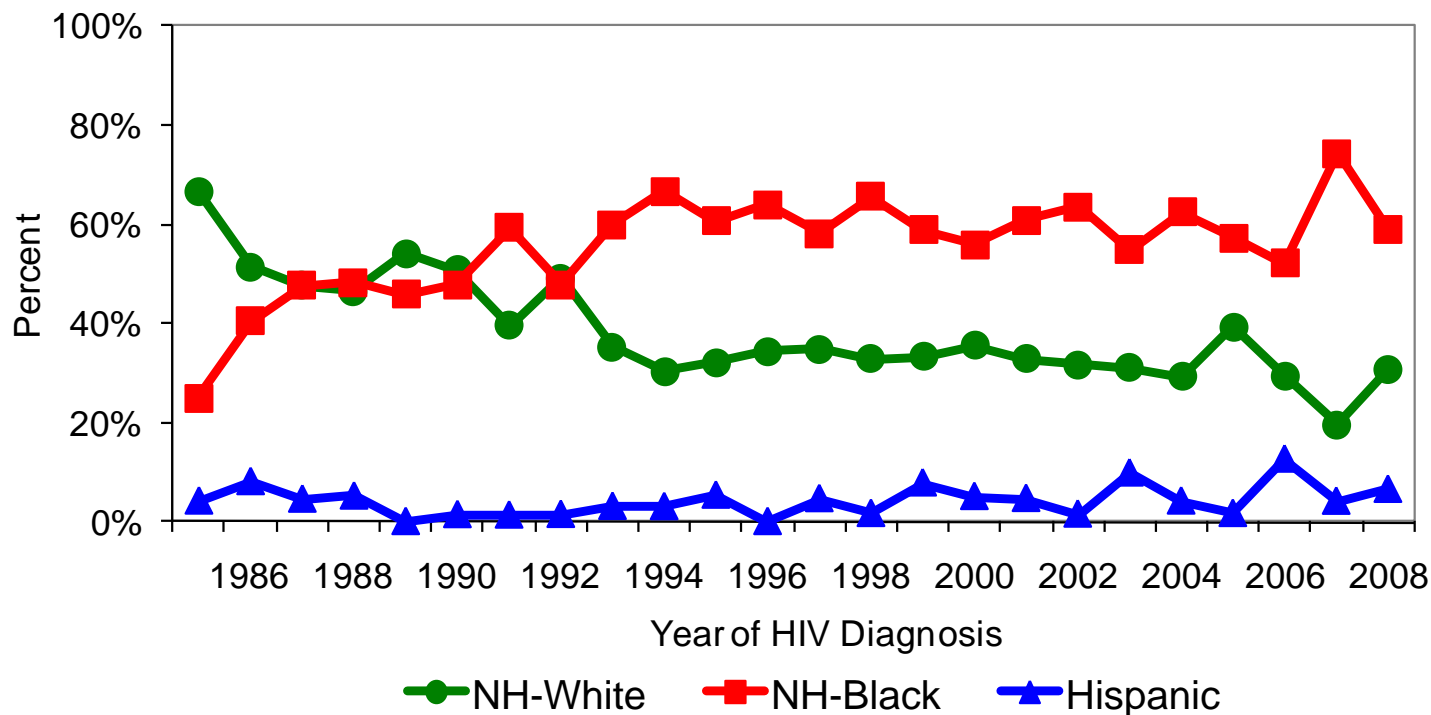
### Section III – Trends in Reported HIV Diagnoses by Demographics and Exposure Category, 1985-2008

Proportions by Gender of Reported HIV Cases with or without an AIDS Diagnosis by Year of HIV Diagnosis from 1985 through 2008 as Reported by Name through 12/31/09



YEAR	Reported HIV Diagnoses	Percent Male	Percent Female	YEAR	Reported HIV Diagnoses	Percent Male	Percent Female
1985	24	87.5	12.5	1997	43	72.1	27.9
1986	37	73.0	27.0	1998	61	65.6	34.4
1987	44	81.8	18.2	1999	51	72.5	27.5
1988	58	91.4	8.6	2000	59	74.6	25.4
1989	59	84.7	15.3	2001	64	68.8	31.3
1990	71	76.1	23.9	2002	66	54.5	45.5
1991	76	65.8	34.2	2003	71	66.2	33.8
1992	69	63.8	36.2	2004	72	65.3	34.7
1993	65	69.2	30.8	2005	61	65.6	34.4
1994	66	68.2	31.8	2006	71	59.2	40.8
1995	56	75.0	25.0	2007	97	70.1	29.9
1996	64	84.4	15.6	2008	107	65.4	34.6

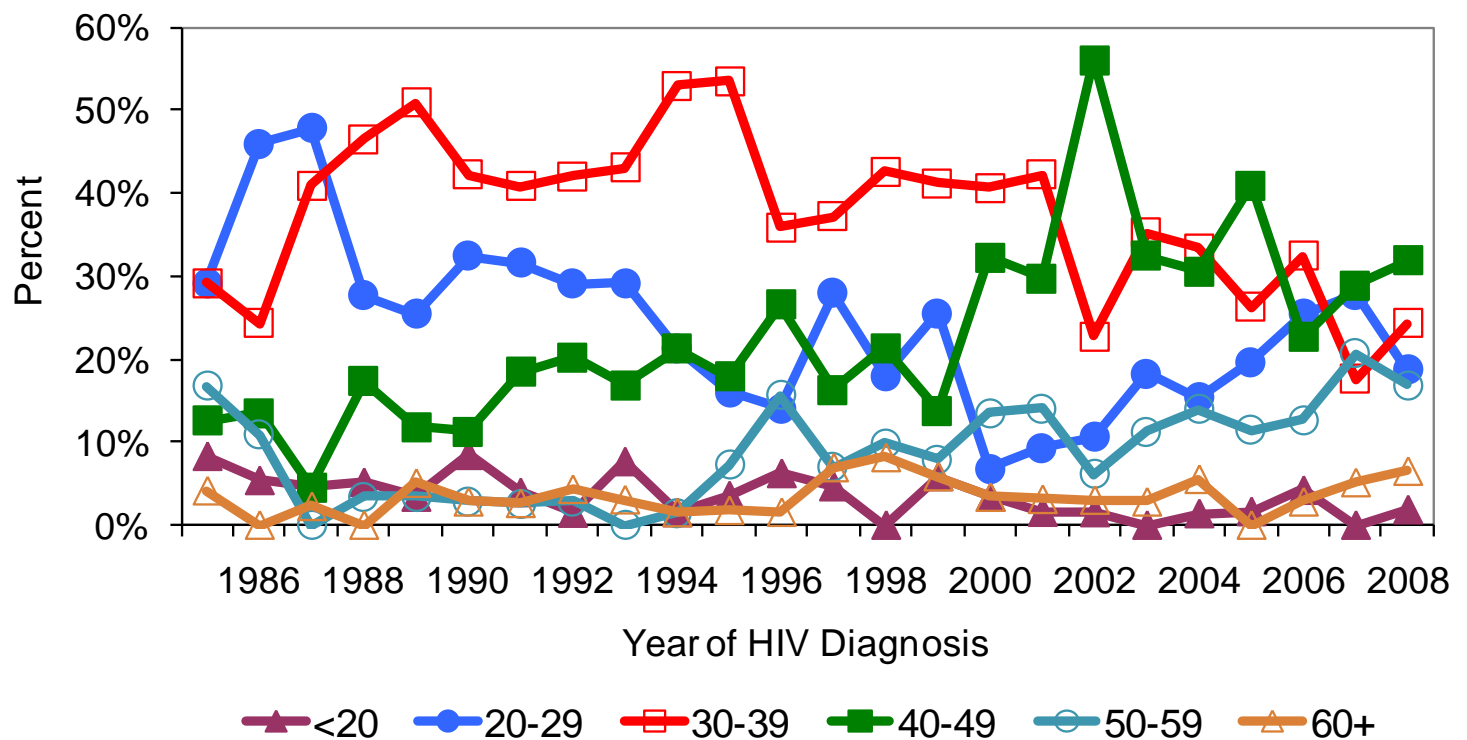
**Proportions by Race/Ethnicity\* of Reported HIV Cases with or without an AIDS Diagnosis by Year of HIV Diagnosis from 1985 through 2008 as Reported by Name through 12/31/09**



\* Other race category not shown.

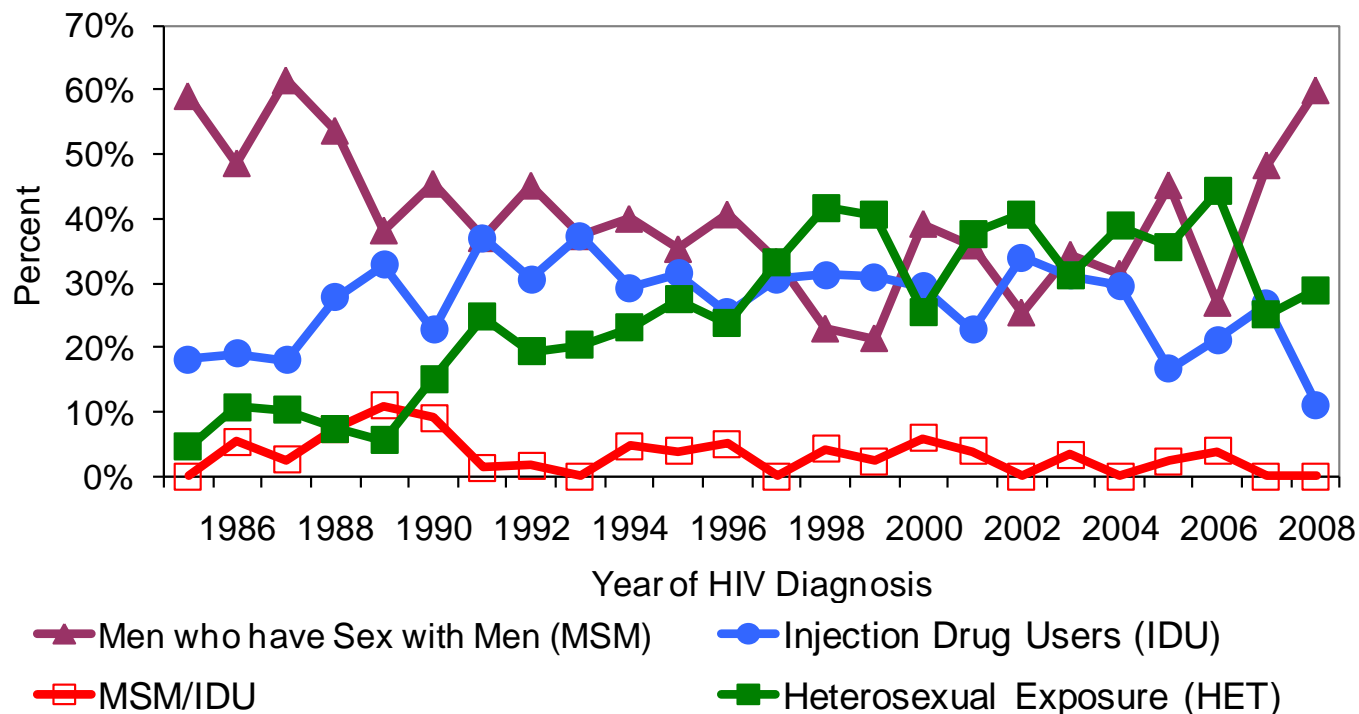
YEAR	Reported HIV Diagnoses	Percent Non-Hispanic White	Percent Non-Hispanic Black	Percent Hispanic	Percent Other
1985	24	66.7	25.0	4.2	4.2
1986	37	51.4	40.5	8.1	0.0
1987	44	47.7	47.7	4.5	0.0
1988	58	46.6	48.3	5.2	0.0
1989	59	54.2	45.8	0.0	0.0
1990	71	50.7	47.9	1.4	0.0
1991	76	39.5	59.2	1.3	0.0
1992	69	49.3	47.8	1.4	1.4
1993	65	35.4	60.0	3.1	1.5
1994	66	30.3	66.7	3.0	0.0
1995	56	32.1	60.7	5.4	1.8
1996	64	34.4	64.1	0.0	1.6
1997	43	34.9	58.1	4.7	2.3
1998	61	32.8	65.6	1.6	0.0
1999	51	33.3	58.8	7.8	0.0
2000	59	35.6	55.9	5.1	3.4
2001	64	32.8	60.9	4.7	1.6
2002	66	31.8	63.6	1.5	3.0
2003	71	31.0	54.9	9.9	4.2
2004	72	29.2	62.5	4.2	4.2
2005	61	39.3	57.4	1.6	1.6
2006	71	29.6	52.1	12.7	5.6
2007	97	19.6	74.2	4.1	2.1
2008	107	30.8	58.9	6.5	3.7

**Proportions by Age at Diagnosis of Reported HIV Cases with or without an AIDS Diagnosis by Year of HIV Diagnosis from 1985 through 2008 as Reported by Name through 12/31/09**



YEAR	Reported HIV Diagnoses	Percent Age <20	Percent Age 20-29	Percent Age 30-39	Percent Age 40-49	Percent Age 50-59	Percent Age 60+
1985	24	8.3	29.2	29.2	12.5	16.7	4.2
1986	37	5.4	45.9	24.3	13.5	10.8	0.0
1987	44	4.5	47.7	40.9	4.5	0.0	2.3
1988	58	5.2	27.6	46.6	17.2	3.4	0.0
1989	59	3.4	25.4	50.8	11.9	3.4	5.1
1990	71	8.5	32.4	42.3	11.3	2.8	2.8
1991	76	3.9	31.6	40.8	18.4	2.6	2.6
1992	69	1.4	29.0	42.0	20.3	2.9	4.3
1993	65	7.7	29.2	43.1	16.9	0.0	3.1
1994	66	1.5	21.2	53.0	21.2	1.5	1.5
1995	56	3.6	16.1	53.6	17.9	7.1	1.8
1996	64	6.3	14.1	35.9	26.6	15.6	1.6
1997	43	4.7	27.9	37.2	16.3	7.0	7.0
1998	61	0.0	18.0	42.6	21.3	9.8	8.2
1999	51	5.9	25.5	41.2	13.7	7.8	5.9
2000	59	3.4	6.8	40.7	32.2	13.6	3.4
2001	64	1.6	9.4	42.2	29.7	14.1	3.1
2002	66	1.5	10.6	22.7	56.1	6.1	3.0
2003	71	0.0	18.3	35.2	32.4	11.3	2.8
2004	72	1.4	15.3	33.3	30.6	13.9	5.6
2005	61	1.6	19.7	26.2	41.0	11.5	0.0
2006	71	4.2	25.4	32.4	22.5	12.7	2.8
2007	97	0.0	27.8	17.5	28.9	20.6	5.2
2008	107	1.9	18.7	24.3	31.8	16.8	6.5

**Proportions by Exposure Category\* of Reported HIV Cases with or without an AIDS Diagnosis and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2008 as Reported by Name through 12/31/09**



\* Cases with no reported exposure category were excluded from percent distributions. Other exposure category not shown.

YEAR	Reported HIV Diagnoses	With Exposure Category	Percent MSM	Percent IDU	Percent MSM/IDU	Percent HET	Percent Other Exposure
1985	24	22	59.1	18.2	0.0	4.5	18.2
1986	37	37	48.6	18.9	5.4	10.8	16.2
1987	44	39	61.5	17.9	2.6	10.3	7.7
1988	58	54	53.7	27.8	7.4	7.4	3.7
1989	59	55	38.2	32.7	10.9	5.5	12.7
1990	71	66	45.5	22.7	9.1	15.2	7.6
1991	76	73	37.0	37.0	1.4	24.7	0.0
1992	69	62	45.2	30.6	1.6	19.4	3.2
1993	65	59	37.3	37.3	0.0	20.3	5.1
1994	66	65	40.0	29.2	4.6	23.1	3.1
1995	56	51	35.3	31.4	3.9	27.5	2.0
1996	64	59	40.7	25.4	5.1	23.7	5.1
1997	43	36	33.3	30.6	0.0	33.3	2.8
1998	61	48	22.9	31.3	4.2	41.7	0.0
1999	51	42	21.4	31.0	2.4	40.5	4.8
2000	59	51	39.2	29.4	5.9	25.5	0.0
2001	64	53	35.8	22.6	3.8	37.7	0.0
2002	66	59	25.4	33.9	0.0	40.7	0.0
2003	71	61	34.4	31.1	3.3	31.1	0.0
2004	72	54	31.5	29.6	0.0	38.9	0.0
2005	61	42	45.2	16.7	2.4	35.7	0.0
2006	71	52	26.9	21.2	3.8	44.2	3.8
2007	97	60	48.3	26.7	0.0	25.0	0.0
2008	107	45	60.0	11.1	0.0	28.9	0.0



## Section IV – HIV and AIDS Cases by ZIP Code, Diagnoses during 2008

Reported HIV Cases with or without an AIDS Diagnosis, Diagnosed with HIV during 1/1/08-12/31/08 (Reported HIV Diagnoses) and Reported HIV Cases with an AIDS Diagnosis, Diagnosed with AIDS during 1/1/08-12/31/08 (Reported AIDS Diagnoses) as Reported by Name through 12/31/09

ZIP CODE OF RESIDENCE	Population <sup>a</sup>	Reported HIV Diagnoses <sup>b</sup>			Reported AIDS Diagnoses		
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>
20701	12	***	***	***	***	***	***
20711	6,351	1	1.0%	15.7	0	0.0%	0.0
20714	446	***	***	***	***	***	***
20724	13,648	3	3.1%	22.0	1	2.0%	7.3
20733	2,943	1	1.0%	34.0	0	0.0%	0.0
20751	2,342	0	0.0%	0.0	0	0.0%	0.0
20754	1,242	0	0.0%	75.2	0	0.0%	0.0
20755	10,371	1	1.0%	9.6	0	0.0%	0.0
20758	835	***	***	***	***	***	***
20764	4,106	0	0.0%	0.0	0	0.0%	0.0
20765	381	***	***	***	***	***	***
20776	3,582	0	0.0%	0.0	0	0.0%	0.0
20778	1,880	2	2.1%	106.4	0	0.0%	0.0
20779	1,148	0	0.0%	0.0	0	0.0%	0.0
20794	8,582	0	0.0%	0.0	0	0.0%	0.0
21012	21,993	1	1.0%	4.5	1	2.0%	4.5
21032	8,341	0	0.0%	0.0	1	2.0%	12.0
21035	7,717	0	0.0%	0.0	0	0.0%	0.0
21037	17,079	1	1.0%	5.9	1	2.0%	5.9
21054	7,497	0	0.0%	0.0	0	0.0%	0.0
21056	324	***	***	***	***	***	***
21060	28,456	7	7.2%	24.6	3	6.0%	10.5
21061	52,374	15	15.5%	28.6	7	14.0%	13.4
21076	6,377	0	0.0%	0.0	0	0.0%	0.0
21077	299	***	***	***	***	***	***
21090	10,181	2	2.1%	19.6	0	0.0%	0.0
21108	18,577	0	0.0%	0.0	0	0.0%	0.0
21113	21,976	4	4.1%	18.2	2	4.0%	9.1
21114	25,809	2	2.1%	7.7	1	2.0%	3.9
21122	60,253	7	7.2%	11.6	4	8.0%	6.6
21140	3,578	0	0.0%	0.0	0	0.0%	0.0
21144	29,909	10	10.3%	33.4	4	8.0%	13.4
21146	26,071	1	1.0%	3.8	0	0.0%	0.0
21225	14,208	13	13.4%	91.5	9	18.0%	63.3
21226	3,760	2	2.1%	53.2	2	4.0%	53.2
21401	52,996	17	17.5%	32.1	6	12.0%	11.3
21402	5,527	0	0.0%	0.0	0	0.0%	0.0
21403	31,006	7	7.2%	22.6	8	16.0%	25.8
21405	613	***	***	***	***	***	***
Missing <sup>d</sup>		10			1		
ANNE ARUNDEL TOTAL	512,790	107	100.0%	20.9	51	100.0%	9.9

a Population is extrapolated from the 2000 Census by ZIP and the July 1, 2008 Census Population Estimates by county

b During the transition to name-based HIV reporting, many reported HIV cases were identified by a recent HIV diagnosis, but not by their earliest HIV diagnosis, resulting in an over-reporting of HIV diagnoses in recent years

c Rate is number of cases per 100,000 population

d Cases with missing ZIP codes were excluded from percent distribution

\*\*\* Data withheld due to low population and/or case counts

## Section V – HIV and AIDS Cases by ZIP Code, Alive on 12/31/2008

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to Have Died as of 12/31/08 as Reported by Name through 12/31/09

ZIP CODE OF RESIDENCE	Popu- lation <sup>a</sup>	Living HIV Cases without AIDS <sup>b</sup>			Living HIV Cases with AIDS			Total Living HIV Cases <sup>b</sup>			
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	Ratio <sup>d</sup> (1 in X)
20701	12	***	***	***	***	***	***	***	***	***	***
20711	6,351	5	1.3%	78.7	7	1.2%	110.2	12	1.2%	188.9	529
20714	446	***	***	***	***	***	***	***	***	***	***
20724	13,648	8	2.0%	58.6	19	3.4%	139.2	27	2.8%	197.8	505
20733	2,943	2	0.5%	68.0	1	0.2%	34.0	3	0.3%	101.9	981
20751	2,342	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	---
20754	1,242	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	---
20755	10,371	4	1.0%	38.6	4	0.7%	38.6	8	0.8%	77.1	1,296
20758	835	***	***	***	***	***	***	***	***	***	***
20764	4,106	0	0.0%	0.0	4	0.7%	97.4	4	0.4%	97.4	1,026
20765	381	***	***	***	***	***	***	***	***	***	***
20776	3,582	0	0.0%	0.0	1	0.2%	27.9	1	0.1%	27.9	3,582
20778	1,880	2	0.5%	106.4	0	0.0%	0.0	2	0.2%	106.4	940
20779	1,148	0	0.0%	0.0	1	0.2%	87.1	1	0.1%	87.1	1,148
20794	8,582	6	1.5%	69.9	5	0.9%	58.3	11	1.1%	128.2	780
21012	21,993	14	3.5%	63.7	9	1.6%	40.9	23	2.4%	104.6	956
21032	8,341	10	2.5%	119.9	12	2.1%	143.9	22	2.3%	263.8	379
21035	7,717	1	0.3%	13.0	0	0.0%	0.0	1	0.1%	13.0	7,717
21037	17,079	8	2.0%	46.8	12	2.1%	70.3	20	2.1%	117.1	853
21054	7,497	2	0.5%	26.7	6	1.1%	80.0	8	0.8%	106.7	937
21056	324	***	***	***	***	***	***	***	***	***	***
21060	28,456	27	6.8%	94.9	35	6.2%	123.0	62	6.4%	217.9	458
21061	52,374	65	16.4%	124.1	87	15.4%	166.1	152	15.8%	290.2	344
21076	6,377	2	0.5%	31.4	5	0.9%	78.4	7	0.7%	109.8	911
21077	299	***	***	***	***	***	***	***	***	***	***
21090	10,181	9	2.3%	88.4	4	0.7%	39.3	13	1.4%	127.7	783
21108	18,577	10	2.5%	53.8	13	2.3%	70.0	23	2.4%	123.8	807
21113	21,976	12	3.0%	54.6	22	3.9%	100.1	34	3.5%	154.7	646
21114	25,809	13	3.3%	50.4	8	1.4%	31.0	21	2.2%	81.4	1,229
21122	60,253	27	6.8%	44.8	46	8.1%	76.3	73	7.6%	121.2	825
21140	3,578	1	0.3%	27.9	1	0.2%	27.9	2	0.2%	55.9	1,789
21144	29,909	34	8.6%	113.7	51	9.0%	170.5	85	8.8%	284.2	351
21146	26,071	11	2.8%	42.2	14	2.5%	53.7	25	2.6%	95.9	1,042
21225	14,208	30	7.6%	211.1	39	6.9%	274.5	69	7.2%	485.6	205
21226	3,760	4	1.0%	106.4	3	0.5%	79.8	7	0.7%	186.2	537
21401	52,996	61	15.4%	115.1	90	15.9%	169.8	151	15.7%	284.9	350
21402	5,527	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	---
21403	31,006	27	6.8%	87.1	63	11.2%	203.2	90	9.4%	290.3	344
21405	613	***	***	***	***	***	***	***	***	***	***
Missing <sup>d</sup>		15			7			22			
ANNE ARUNDEL TOTAL	512,790	412	100.0%	80.3	572	100.0%	111.5	984	100.0%	191.9	521

a Population is extrapolated from the 2000 Census by ZIP and the July 1, 2008 Census Population Estimates by county

b During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS and the total living HIV cases are lower than previously reported

c Rate is number of cases per 100,000 population

d Ratio is number of people per case (there was 1 case for every 521 people in Anne Arundel County)

e Cases with missing ZIP codes were excluded from percent distributions

\*\*\* Data withheld due to low population and/or case counts

## Section VI – HIV and AIDS Case by Demographics, Diagnoses during 2008

Reported HIV Cases with or without an AIDS Diagnosis, Diagnosed with HIV during 1/1/08-12/31/08 (Reported HIV Diagnoses) and Reported HIV Cases with an AIDS Diagnosis, Diagnosed with AIDS during 1/1/08-12/31/08 (Reported AIDS Diagnoses) as Reported by Name through 12/31/09

GENDER	Population <sup>a</sup>	Reported HIV Diagnoses <sup>b</sup>			Reported AIDS Diagnoses		
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>
Male	254,441	70	65.4%	27.5	32	62.7%	12.6
Female	258,349	37	34.6%	14.3	19	37.3%	7.4
GENDER TOTAL	512,790	107	100.0%	20.9	51	100.0%	9.9

RACE/ETHNICITY	Population <sup>a</sup>	Reported HIV Diagnoses <sup>b</sup>			Reported AIDS Diagnoses		
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>
Non-Hispanic White	385,907	33	30.8%	8.6	6	11.8%	1.6
Non-Hispanic Black	77,755	63	58.9%	81.0	39	76.5%	50.2
Hispanic	23,037	7	6.5%	30.4	4	7.8%	17.4
Other	26,091	4	3.7%	15.3	2	3.9%	7.7
RACE/ETHNICITY TOTAL	512,790	107	100.0%	20.9	51	100.0%	9.9

AGE AT DIAGNOSIS	Population <sup>a</sup>	Reported HIV Diagnoses <sup>b</sup>			Reported AIDS Diagnoses		
	No.	No.	%	Rate <sup>c</sup>	No.	No.	Rate <sup>c</sup>
<5 (Pediatric)	33,790	0	0.0%	0.0	0	0.0%	0.0
5-12 (Pediatric)	53,965	0	0.0%	0.0	0	0.0%	0.0
13-19	49,118	2	1.9%	4.1	1	2.0%	2.0
20-29	66,731	20	18.7%	30.0	11	21.6%	16.5
30-39	68,297	26	24.3%	38.1	8	15.7%	11.7
40-49	84,051	34	31.8%	40.5	21	41.2%	25.0
50-59	70,518	18	16.8%	25.5	9	17.6%	12.8
60+	86,320	7	6.5%	8.1	1	2.0%	1.2
AGE TOTAL	512,790	107	100.0%	20.9	51	100.0%	9.9

a Population is from the July 1, 2008 Census Population Estimates

b During the transition to name-based HIV reporting, many reported HIV cases were identified by a recent HIV diagnosis, but not by their earliest HIV diagnosis, resulting in an over-reporting of HIV diagnoses in recent years

c Rate is number of cases per 100,000 population

## Section VII – HIV and AIDS Cases by Demographics, Alive on 12/31/2008

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to Have Died as of 12/31/08 as Reported by Name through 12/31/09

GENDER	Popu- lation <sup>a</sup>	Living HIV Cases without AIDS <sup>b</sup>			Living HIV Cases with AIDS			Total Living HIV Cases <sup>b</sup>			
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	Ratio <sup>d</sup> (1 in X)
Male	254,441	261	63.3%	102.6	384	67.1%	150.9	645	65.5%	253.5	394
Female	258,349	151	36.7%	58.4	188	32.9%	72.8	339	34.5%	131.2	762
GENDER TOTAL	512,790	412	100.0%	80.3	572	100.0%	111.5	984	100.0%	191.9	521

RACE/ ETHNICITY	Popu- lation <sup>a</sup>	Living HIV Cases without AIDS <sup>b</sup>			Living HIV Cases with AIDS			Total Living HIV Cases <sup>b</sup>			
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	Ratio <sup>d</sup> (1 in X)
Non-Hispanic White	385,907	159	38.6%	41.2	165	28.8%	42.8	324	32.9%	84.0	1,191
Non-Hispanic Black	77,755	225	54.6%	289.4	361	63.1%	464.3	586	59.6%	753.6	132
Hispanic	23,037	16	3.9%	69.5	38	6.6%	165.0	54	5.5%	234.4	426
Other	26,091	12	2.9%	46.0	8	1.4%	30.7	20	2.0%	76.7	1,304
RACE/ ETHNICITY TOTAL	512,790	412	100.0%	80.3	572	100.0%	111.5	984	100.0%	191.9	521

AGE ON 12/31/08	Popu- lation <sup>a</sup>	Living HIV Cases without AIDS <sup>b</sup>			Living HIV Cases with AIDS			Total Living HIV Cases <sup>b</sup>			
	No.	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	No.	%	Rate <sup>c</sup>	Ratio <sup>d</sup> (1 in X)
<5 (Pediatric)	33,790	0	0.0%	0.0	1	0.2%	3.0	1	0.1%	3.0	33,790
5-12 (Pediatric)	53,965	1	0.2%	1.9	2	0.3%	3.7	3	0.3%	5.6	17,988
13-19	49,118	5	1.2%	10.2	4	0.7%	8.1	9	0.9%	18.3	5,457
20-29	66,731	57	13.8%	85.4	33	5.8%	49.5	90	9.1%	134.9	741
30-39	68,297	91	22.1%	133.2	89	15.6%	130.3	180	18.3%	263.6	379
40-49	84,051	150	36.4%	178.5	238	41.6%	283.2	388	39.4%	461.6	216
50-59	70,518	79	19.2%	112.0	156	27.3%	221.2	235	23.9%	333.2	300
60+	86,320	29	7.0%	33.6	49	8.6%	56.8	78	7.9%	90.4	1,106
AGE TOTAL	512,790	412	100.0%	80.3	572	100.0%	111.5	984	100.0%	191.9	521

a Population is from the July 1, 2008 Census Population Estimates

b During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS and the total living HIV cases are lower than previously reported

c Rate is number of cases per 100,000 population

d Ratio is number of people per case (there was 1 case for every 521 people in Anne Arundel County)

## Section VIII –HIV and AIDS Cases by Expanded Demographics, Alive on 12/31/2008

Male Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to Have Died as of 12/31/08 as Reported by Name through 12/31/09

MALES						
AGE ON 12/31/08		RACE/ETHNICITY				TOTAL MALES BY AGE
		Non-Hispanic White	Non-Hispanic Black	Hispanic	Other	
<13 (Pediatric)	Population <sup>a</sup>	30,967	7,321	3,427	3,204	44,919
	Cases <sup>b</sup>	***	***	0	0	2
	Rate <sup>c</sup>	***	***	0.0	0.0	4.5
	Ratio (1 in X) <sup>d</sup>	***	***	---	---	22,459
13-19	Population <sup>a</sup>	18,446	4,445	1,245	1,286	25,422
	Cases <sup>b</sup>	***	***	0	0	3
	Rate <sup>c</sup>	***	***	0.0	0.0	11.8
	Ratio (1 in X) <sup>d</sup>	***	***	---	---	8,474
20-29	Population <sup>a</sup>	24,601	6,170	2,356	1,905	35,032
	Cases <sup>b</sup>	***	40	***	***	60
	Rate <sup>c</sup>	***	648.3	***	***	171.3
	Ratio (1 in X) <sup>d</sup>	***	154	***	***	583
30-39	Population <sup>a</sup>	23,158	6,234	2,465	2,164	34,021
	Cases <sup>b</sup>	32	44	***	***	99
	Rate <sup>c</sup>	138.2	705.8	***	***	291.0
	Ratio (1 in X) <sup>d</sup>	723	141	***	***	343
40-49	Population <sup>a</sup>	31,919	6,270	1,574	1,682	41,445
	Cases <sup>b</sup>	105	139	***	***	255
	Rate <sup>c</sup>	329.0	2,216.9	***	***	615.3
	Ratio (1 in X) <sup>d</sup>	303	45	***	***	162
50-59	Population <sup>a</sup>	28,211	4,129	771	1,216	34,327
	Cases <sup>b</sup>	69	88	***	***	165
	Rate <sup>c</sup>	244.6	2,131.3	***	***	480.7
	Ratio (1 in X) <sup>d</sup>	408	46	***	***	208
60+	Population <sup>a</sup>	33,961	3,644	470	1,200	39,275
	Cases <sup>b</sup>	***	35	***	0	61
	Rate <sup>c</sup>	***	960.5	***	0.0	155.3
	Ratio (1 in X) <sup>d</sup>	***	104	***	---	643
TOTAL MALES BY RACE/ ETHNICITY	Population <sup>a</sup>	191,263	38,213	12,308	12,657	254,441
	Cases <sup>b</sup>	249	349	37	10	645
	Rate <sup>c</sup>	130.2	913.3	300.6	79.0	253.5
	Ratio (1 in X) <sup>d</sup>	768	109	332	1,265	394

a Population is from the July 1, 2008 Census Population Estimates

b During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS and the total living HIV cases are lower than previously reported

c Rate is number of cases per 100,000 population

d Ratio is number of people per case (there was 1 case for every 394 males in Anne Arundel County)

\*\*\* Data withheld due to low population and/or case counts

**Female Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to Have Died as of 12/31/08 as Reported by Name through 12/31/09**

FEMALES						
AGE ON 12/31/08		RACE/ETHNICITY				TOTAL FEMALES BY AGE
		Non-Hispanic White	Non-Hispanic Black	Hispanic	Other	
<13 (Pediatric)	Population <sup>a</sup>	29,440	7,058	3,320	3,018	42,836
	Cases <sup>b</sup>	***	***	0	0	2
	Rate <sup>c</sup>	***	***	0.0	0.0	4.7
	Ratio (1 in X) <sup>d</sup>	***	***	---	---	21,418
13-19	Population <sup>a</sup>	17,117	4,262	1,046	1,271	23,696
	Cases <sup>b</sup>	***	***	0	0	6
	Rate <sup>c</sup>	***	***	0.0	0.0	25.3
	Ratio (1 in X) <sup>d</sup>	***	***	---	---	3,949
20-29	Population <sup>a</sup>	22,387	5,914	1,682	1,716	31,699
	Cases <sup>b</sup>	***	20	***	***	30
	Rate <sup>c</sup>	***	338.2	***	***	94.6
	Ratio (1 in X) <sup>d</sup>	***	295	***	***	1,056
30-39	Population <sup>a</sup>	24,089	5,968	1,925	2,294	34,276
	Cases <sup>b</sup>	15	58	***	***	81
	Rate <sup>c</sup>	62.3	971.8	***	***	236.3
	Ratio (1 in X) <sup>d</sup>	1,605	102	***	***	423
40-49	Population <sup>a</sup>	32,515	6,823	1,347	1,921	42,606
	Cases <sup>b</sup>	30	94	***	***	133
	Rate <sup>c</sup>	92.3	1,377.7	***	***	312.2
	Ratio (1 in X) <sup>d</sup>	1,083	72	***	***	320
50-59	Population <sup>a</sup>	29,263	4,516	761	1,651	36,191
	Cases <sup>b</sup>	20	46	***	***	70
	Rate <sup>c</sup>	68.3	1,018.6	***	***	193.4
	Ratio (1 in X) <sup>d</sup>	1,463	98	***	***	517
60+	Population <sup>a</sup>	39,833	5,001	648	1,563	47,045
	Cases <sup>b</sup>	***	14	***	***	17
	Rate <sup>c</sup>	***	279.9	***	***	36.1
	Ratio (1 in X) <sup>d</sup>	***	357	***	***	2,767
TOTAL FEMALES BY RACE/ ETHNICITY	Population <sup>a</sup>	194,644	39,542	10,729	13,434	258,349
	Cases <sup>b</sup>	75	237	17	10	339
	Rate <sup>c</sup>	38.5	599.4	158.4	74.4	131.2
	Ratio (1 in X) <sup>d</sup>	2,595	166	631	1,343	762

a Population is from the July 1, 2008 Census Population Estimates

b During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS and the total living HIV cases are lower than previously reported

c Rate is number of cases per 100,000 population

d Ratio is number of people per case (there was 1 case for every 762 females in Anne Arundel County)

\*\*\* Data withheld due to low population and/or case counts

## Section IX – HIV and AIDS Cases by Exposure Category, Age, and Gender, Diagnoses during 2008

Reported HIV Cases with or without an AIDS Diagnosis, Diagnosed with HIV during 1/1/08-12/31/08 (Reported HIV Diagnoses) and Reported HIV Cases with an AIDS Diagnosis, Diagnosed with AIDS during 1/1/08-12/31/08 (Reported AIDS Diagnoses) as Reported by Name through 12/31/09

ALL AGES ALL GENDERS EXPOSURE CATEGORY	Reported HIV Diagnoses <sup>a</sup>		Reported AIDS Diagnoses	
	No.	%	No.	%
Men who have Sex with Men (MSM)	27	60.0%	12	36.4%
Injection Drug Users (IDU)	5	11.1%	9	27.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	1	3.0%
Heterosexual Exposure (HET)	13	28.9%	11	33.3%
Other Exposures	0	0.0%	0	0.0%
No Reported Exposure <sup>b</sup>	62		18	
TOTAL	107	100.0%	51	100.0%

ADULT/ADOLESCENT (AGE 13+ AT DIAGNOSIS) MALES EXPOSURE CATEGORY	Reported HIV Diagnoses <sup>a</sup>		Reported AIDS Diagnoses	
	No.	%	No.	%
Men who have Sex with Men (MSM)	27	75.0%	12	57.1%
Injection Drug Users (IDU)	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	0	0.0%	***	***
Heterosexual Exposure (HET)	***	***	***	***
Other Exposures	0	0.0%	0	0.0%
No Reported Exposure <sup>b</sup>	34		11	
TOTAL ADULT/ADOLESCENT MALES	70	100.0%	32	100.0%

ADULT/ADOLESCENT (AGE 13+ AT DIAGNOSIS) FEMALES EXPOSURE CATEGORY	Reported HIV Diagnoses <sup>a</sup>		Reported AIDS Diagnoses	
	No.	%	No.	%
Injection Drug Users (IDU)	***	***	***	***
Heterosexual Exposure (HET)	***	***	***	***
Other Exposures	0	0.0%	0	0.0%
No Reported Exposure <sup>b</sup>	28		7	
TOTAL ADULT/ADOLESCENT FEMALES	37	100.0%	19	100.0%

a During the transition to name-based HIV reporting, many reported HIV cases were identified by a recent HIV diagnosis, but not by their earliest HIV diagnosis, resulting in an over-reporting of HIV diagnoses in recent years

b Cases with no reported exposure category were excluded from percent distributions

\*\*\* Data withheld due to low population and/or case counts

## Section X – Living HIV and AIDS Cases by Exposure Category, Age, and Gender, Alive on 12/31/2008

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to Have Died as of 12/31/08 as Reported by Name through 12/31/09

ALL AGES ALL GENDERS EXPOSURE CATEGORY	Living HIV Cases without AIDS <sup>a</sup>		Living HIV Cases with AIDS		Total Living HIV Cases	
	No.	%	No.	%	No.	%
Men who have Sex with Men (MSM)	120	44.0%	169	34.0%	289	37.5%
Injection Drug Users (IDU)	56	20.5%	127	25.6%	183	23.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	2.2%	16	3.2%	22	2.9%
Heterosexual Exposure (HET)	85	31.1%	168	33.8%	253	32.9%
Other Exposures	6	2.2%	17	3.4%	23	3.0%
No Reported Exposure <sup>b</sup>	139		75		214	
TOTAL	412	100.0%	572	100.0%	984	100.0%

ADULT/ADOLESCENT (AGE 13+ ON 12/31/08) MALES EXPOSURE CATEGORY	Living HIV Cases without AIDS <sup>a</sup>		Living HIV Cases with AIDS		Total Living HIV Cases	
	No.	%	No.	%	No.	%
Men who have Sex with Men (MSM)	120	64.5%	169	50.9%	289	55.8%
Injection Drug Users (IDU)	33	17.7%	81	24.4%	114	22.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	6	3.2%	16	4.8%	22	4.2%
Heterosexual Exposure (HET)	25	13.4%	61	18.4%	86	16.6%
Other Exposures	2	1.1%	5	1.5%	7	1.4%
No Reported Exposure <sup>b</sup>	74		51		125	
TOTAL ADULT/ADOLESCENT MALES	260	100.0%	383	100.0%	643	100.0%

ADULT/ADOLESCENT (AGE 13+ ON 12/31/08) FEMALES EXPOSURE CATEGORY	Living HIV Cases without AIDS <sup>a</sup>		Living HIV Cases with AIDS		Total Living HIV Cases	
	No.	%	No.	%	No.	%
Injection Drug Users (IDU)	23	26.4%	46	28.4%	69	27.7%
Heterosexual Exposure (HET)	60	69.0%	107	66.0%	167	67.1%
Other Exposures	4	4.6%	9	5.6%	13	5.2%
No Reported Exposure <sup>b</sup>	64		24		88	
TOTAL ADULT/ADOLESCENT FEMALES	151	100.0%	186	100.0%	337	100.0%

a During the transition to name-based HIV reporting, not all code-based HIV cases were located and re-reported, therefore the number of living HIV cases without AIDS is lower than previously reported

b Cases with no reported exposure category were excluded from percent distributions